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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. P. Tittmann
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd Sheet No. **3675**

LOCALITY:

Hutchinson
Entrance

1914

CHIEF OF PARTY:

R. S. Patton

11-4645

3675

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SHEET NO. 3675..
HINCHINBROOK ENTRANCE,
PRINCE WILLIAM SOUND, ALASKA.

In accordance with instructions from the Office, after completing the work in Cook Inlet, the EXPLORER proceeded to Prince William Sound to take up a portion of the work originally assigned to Assistant Rude, commanding the "Taku".

The first work undertaken consisted of Paragraph 7 of Assistant Rude's instructions, namely, the hydrography to fill open areas north of Montague Island, and between Hinchinbrook and Smith Island.

Such data as was available for this work was procured from Assistant Rude. This consisted of numerous triangulation stations in the vicinity, only a few of which, however, were of a character which made it possible to utilize them for off shore work. During the progress of the sounding, therefore, two objects were used for which no geographical position had been furnished. These objects were:-

First:- The tangent to the shore line at Bear Cape, which was used for a few positions during the first day's work, the shore line as plotted on the sheet being transferred from Chart No. 8520; and,

Second:- Glacier Peak, taken from Chart No. 8517. This latter was used extensively during the work. Its position,

as transferred, seems to be slightly in error, and should therefore be checked when the sheet is verified. In accepting this position as given on the chart, it was assumed, ^{that} there was available in the Office an accurate determination of the points, and therefore, to devote any of the very limited good weather to the triangulation necessary to redetermine its position, would be a needless waste of time.

All sounding was done by the ship, using a Sigsbee Sounding Mashine, the character of the work being made to conform as nearly as possible to that shown on Chart #8520, namely, soundings spaced about one half mile apart.

No tidal observations were made in connection with this work, as there are only eight or ten soundings less than fifty fathoms, and for these reducers for tide may be obtained from Captain Rude's observations in Landlock Bay.

Table of Statistics of Hydrographic Work attached.

Respectfully submitted,

R. S. Patton

CHIEF OF PARTY.

The location of Δ Glacier was revised by Mr. Flower (using Peak 110, Alaska register book) prior to the verification of the sheet. All positions using Glacier are based on the revised position.

E. P. Ellis, Nov. 7, 1928.

TABLE OF STATISTICS - HYDROGRAPHIC SHEET #.....

Date. 1914.	Letter.	Vol.	Positions.	Soundings.	Miles, Statute.	Vessel.
Aug 29	A	1	61	61	34.0	Ship.
Sept 1,	B	1	90	90	56.0	"
" 10,	C	1	103	103	59.5	"
" 12/	D	1	74	74	45.0	"
" 14	E	1	85	85	59.0	"
" 15	F	1	42	42	25.5	"
" 19	G	2	46	46	30.0	"
" 24	H	2	73	73	47.0	"
" 25	J	2	<u>91</u>	<u>91</u>	<u>58.0</u>	"
Totals,.....			665	665	414.0	

Soundings in fathoms.

No tidal observations made.

VEC
Feb. 16, 1915

L. P. L.

HYDROGRAPHIC SHEET 3675.

Hinchinbrook Entrance, Price William Sound, Alaska, by
Assistant R. S. Patton in 1914.

TIDES.

Predicted tides were used for reductions

Mean lower low waters, or
plane of reference below mean sea level ft.
= 6.0

Mean rise and fall of tide = 9.5

Soundings 50 fathoms or more were not reduced.

H. 3675.

Area N. W. of Hinochenbrook Entrance Prince William Sound.

This is an area of deep water, very well covered.

Sheet examined in Div.
of Hyd'y & Top'y.